In the Claims:

- 1. (Original) An uninterruptible power supply having an input connected to an input power source and an output connected to a critical load, the uninterruptible power supply comprising:
 - a) a utility disconnect static switch comprising two silicon controlled rectifiers connected in anti-parallel coupled between the input and an input bus;
 - b) a battery bus;
 - c) an inverter coupled between the battery bus and the output; and
 - an inverter controller that, upon detection of an input power source fault causing an input voltage magnitude increase, controls the inverter to generate on the input bus a voltage of the same polarity and greater magnitude than the input voltage, thereby commutating the utility disconnect static switch.
- 2. (Original) The uninterruptible power supply of claim 1 further comprising:
 - a transformer having first and second windings, the first winding series coupled between the utility disconnect static switch and the output, and the second series winding having a first terminal coupled to ground;
 - a series inverter coupled between a second terminal of the second winding and the battery bus; and
 - c) a series inverter controller that, upon detection of an input power source fault causing an input voltage magnitude increase, controls the series inverter to generate on the input bus a voltage of the same polarity and greater magnitude than the input voltage, thereby commutating the utility disconnect static switch.
- 3. (Original) A method of preventing fault propagation through a utility interactive UPS having an inverter and a utility disconnect static switch with an input terminal supplied with an input power signal and an output terminal, the method comprising the steps of:

sensing a characteristic of the input power signal;

detecting a change in the sensed characteristic indicating a fault that causes an increase in the voltage of the input power signal;

controlling the inverter to generate on the output terminal of the utility disconnect static switch a voltage having a polarity the same as and a magnitude greater than the faulted input voltage, thereby commutating the static switch.

4. (Original) The method of claim 3 wherein the UPS comprises a second inverter, the method further comprising:

static switch a voltage having a polarity the same as and a magnitude greater than the faulted input voltage, thereby commutating the static switch.

- 5. (Original) The method of claim 3 wherein the sensed characteristic is a voltage across the static switch.
- 6. (Original) The method of claim 3 wherein the sensed characteristic is a current through the static switch.
- 7. (Original) The method of claim 4 wherein the sensed characteristic is a voltage polarity across the static switch.
- 8. (Original) The method of claim 4 wherein the sensed characteristic is a current direction through the static switch.
- 9. (Currently amended) An uninterruptible power supply having an input connected to an input power source and an output connected to a critical load, the uninterruptible power supply comprising:

- a utility disconnect static switch coupled between the input and an input bus, the
 <u>utility disconnect</u> switch <u>including</u> two silicon controlled rectifiers connected
 in anti-parallel;
- b) a series inverter coupled between the input bus and a battery bus;
- c) a primary inverter coupled between the battery bus and the output; and
- d) a series inverter controller that, upon detection of an input power source fault causing an input voltage magnitude increase, controls the series inverter to generate on the input bus a voltage of the same polarity and greater magnitude than the input voltage, thereby commutating the utility disconnect static switch.
- 10. (Original) A method of preventing fault propagation through a utility interactive UPS having a series inverter and a utility disconnect static switch with an input terminal supplied with an input power signal and an output terminal, the method comprising the steps of:

sensing a characteristic of the input power signal;

- detecting a change in the sensed characteristic indicating a fault that causes an increase in the voltage of the input power signal;
- controlling the series inverter to generate on the output terminal of the utility disconnect static switch a voltage having a polarity the same as and a magnitude greater than the faulted input voltage, thereby commutating the static switch.
- 11. (Currently amended) An uninterruptible power supply having an input connected to an input power source and an output connected to a critical load, the uninterruptible power supply comprising:
 - a) a utility disconnect static switch comprising two gate commutated switching devices connected in anti-parallel coupled between the input and an input bus;
 - b) <u>a</u> an utility disconnect static switch controller that, upon detection of an input power source fault causing an input voltage magnitude increase, opens the gate commutated switching devices.

- c) a clamping circuit coupled to the gate commutated switching devices to minimize the transient voltage caused by opening the fast utility disconnect static switch.
- 12. (Original) The uninterruptible power supply of claim 11 wherein the gate commutated switching devices are power transistors.
- 13. (Original) The uninterruptible power supply of claim 11 wherein the gate commutated switching devices are gate turn off thyristors.
- 14. (Original) The uninterruptible power supply of claim 11 wherein the clamping circuit further comprises:
 - a first diode having a cathode coupled to an input side of the fast utility disconnect static switch and an anode coupled to a negative battery bus;
 - a second diode having an anode coupled to the input side of the fast utility disconnect static switch and a cathode coupled to the positive battery bus;
 - a third diode having an anode coupled to an output side of the fast utility disconnect static switch and a cathode coupled to the positive battery bus; and
 - a fourth diode having a cathode coupled to the output side of the fast utility disconnect switch and an anode coupled to the negative battery bus.
- 15. (Original) The uninterruptible power supply of claim 11 wherein the clamping circuit further comprises:
 - a first diode having a cathode coupled to an input side of the fast utility disconnect static switch and an anode coupled to a negative terminal of a capacitor;
 - a second diode having an anode coupled to the input side of the fast utility disconnect static switch and a positive terminal of the capacitor;

- a third diode having an anode coupled to an output side of the fast utility disconnect static switch and a cathode coupled to the positive terminal of the capacitor; and a fourth diode having a cathode coupled to the output side of the fast utility disconnect switch and an anode coupled to the negative terminal of the capacitor.
- 16. (Original) The uninterruptible power supply of claim 11 wherein the clamping circuit further comprises:
 - a first diode having an anode coupled to an input side of the fast utility disconnect static switch and a cathode coupled to a first terminal of a capacitor;
 - a second diode having a cathode coupled to the input side of the fast utility disconnect static switch and an anode coupled to a second terminal of the capacitor;
 - a third diode having a cathode coupled to the first terminal of the capacitor and an anode coupled to ground; and
 - a fourth diode having an anode coupled to the second terminal of the capacitor and a cathode coupled to ground.
- 17. (Original) The uninterruptible power supply of claim 11, wherein the clamping circuit further comprises:
 - a first diode having an anode coupled to an input side of the fast utility disconnect static switch and a cathode coupled to a first terminal of a first capacitor; and
 - a second diode having a cathode coupled to the input side of the fast utility disconnect static switch and a cathode coupled to a second terminal of a second capacitor;
 - wherein the second terminal of the first capacitor and the first terminal of the second capacitor are coupled to ground.

- 18. (Original) The uninterruptible power supply of claim 11, wherein the clamping circuit further comprises:
 - a first voltage limiting diode having a cathode coupled to an input side of the fast utility disconnect static switch; and
 - a second voltage limiting diode having an anode coupled to an anode of the first voltage limiting diode and a cathode coupled to ground.
- 19. (Original) A method of preventing fault propagation through a utility interactive UPS having a utility disconnect static switch comprising two gate commutated switching devices coupled in anti-parallel, the static switch having an input terminal supplied with an input power signal, the method comprising the steps of:

sensing a characteristic of the input power signal;

detecting a change in the sensed characteristic indicating a fault that causes an increase in the voltage of the input power signal;

opening the static switch to disconnect the input power signal from the UPS.

- 20. (Original) The method of claim 19 wherein the sensed characteristic is a voltage across the static switch.
- 21. (Original) The method of claim 19 wherein the sensed characteristic is a current through. the static switch.